

10/501392
Rec'd PCT/PTO 15 JUL 2004

501392
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 July 2003 (24.07.2003)

PCT

(10) International Publication Number
WO 03/061115 A1

(51) International Patent Classification⁷: H03F 1/02, 3/24

(74) Agents: HEDBERG, Ake et al.; Aros Patnet AB, P.O. Box 1544, S-751 45 Uppsala (SE).

(21) International Application Number: PCT/SE02/02320

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:
13 December 2002 (13.12.2002)

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

Published:

(26) Publication Language: English

— with international search report

(30) Priority Data:
0200127-9 16 January 2002 (16.01.2002) SE
0202120-2 3 July 2002 (03.07.2002) SE

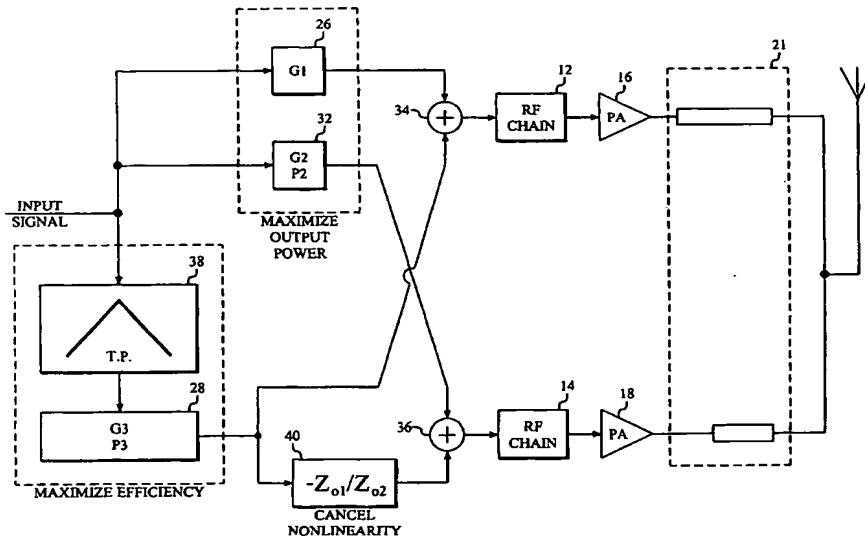
[Continued on next page]

(71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET LM ERICSSON [SE/SE]; S-126 25 Stockholm (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): HELLBERG, Richard [SE/SE]; Forellvägen 14 3tr, S-141 47 Huddinge (SE).

(54) Title: COMPOSITE POWER AMPLIFIER



(57) Abstract: A composite power amplifier includes a first and a second power amplifier (16, 18) connected to an input signal over an input network and to a load over an output network (21). The output network includes phase shifting elements for generating different phase shifts from each power amplifier output to the common load. The input network includes means for driving both power amplifiers to produce (1) first output current components having an amplitude that increases linearly with increasing output signal amplitude below a transition point (T.P.) and decreases monotonically with increasing output signal amplitude above said point, and (2) second output current components having an amplitude that increases linearly with increasing output signal amplitude both below and above the transition point.

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